

the Angles ACD , BCE , equal to one another, and terminating all the Light which falls upon the Paper from the point where the edges of the Knives meet; eis , fk , and glv , three hyperbolical lines representing the terminus of the shadow of one of the Knives, the dark line between the first and second fringes of that shadow, and the dark line between the second and third fringes of the same shadow; xip , ykq and zlr , three other Hyperbolical lines representing the terminus of the shadow of the other Knife, the dark line between the first and second fringes of that shadow, and the dark line between the second and third fringes of the same shadow. And conceive that these three Hyperbolas are like and equal to the former three, and cross them in the points i , k and l , and that the shadows of the Knives are terminated and distinguished from the first luminous fringes by the lines eis and xip , until the meeting and crossing of the fringes, and then those lines cross the fringes in the form of dark lines, terminating the first luminous fringes within side, and distinguishing them from another Light which begins to appear at i , and illuminates all the triangular space $ipDE$ s comprehended by these dark lines, and the right line DE . Of these Hyperbolas one Asymptote is the line DE , and their other Asymptotes are parallel to the lines CA and CB . Let rv represent a line drawn any where upon the Paper parallel to the Asymptote DE , and let this line cross the right lines AC in m and BC in n , and the six dark hyperbolical lines in p , q , r ; s , t , v ; and by measuring the distances ps , qt , rv , and thence collecting the lengths of the ordinates np , nq , nr or ms , mt , mv , and doing this at several distances of the line rv , from

from the Asymptotes
of these Hyperbolas
that these curves are
the conical Hyperbolas
C_i, C_k, C_l,
Curves.

For instance,
Hole in the Win
Knives 9 Feet,
the Knives to w
tended by a chor
and the distance
was half an In
and found them
and by adding to
was the 128th p
fums np, nq, r
ches. I measur
parts of the fring
and tv, and nex
o'8, and 1'17 In

The Sun shining
small round Hole
Pin as above ; I
the Light, and f
of Colours, desc
first Book. And
Bodies held in t
and the Wall, we